

ANALYSIS THE EFFECT OF SKEG TILT BARGE RESISTANCE HULL 300FT BARGE

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ABSTRACT

A skeg is a form of modification given to the stern of a barge to change the direction of fluid flow passing through the stern of the ship. Over time, the development of skeg shapes on barges varies greatly, therefore straight skegs will be redesigned using bent skegs. Which uses degree angles. Therefore, we will do several variations in the shape of the skeg angle. The research carried out was using maxsurf software to study variations. From the values obtained, a straight skeg at a speed of 10 knots had a value of 1103,5 kN, while a skeg with a 15° angle was 1198,3 kN, and a 30° variation angle was 1203,1 kN, angle 45° variation is 1203,5 kN, so it can be determined that with the addition of a 45° variation the greater the resistance obtained with barges with straight skeg and the addition of 15°, 30°.

Keywords : Barge, skeg, maxsurf resistance